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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/576,591

01/16/2007

Wataru Kakinoki

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EXAMINER

MANCUSO, HUEDUNG XUAN CAO

ART UNIT

PAPER NUMBER

2821

MAIL DATE

DELIVERY MODE

06/24/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/576,591	Applicant(s) KAKINOKI ET AL.	
	Examiner Huedung Cao Mancuso	Art Unit 2821	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 January 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>7/31/06, 4/20/06</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4, 6, 8, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki Kota (JJ 2001-339211) in view of Takashi (JP 2001-069029).

As to claim 1, and similar claim 6, Kota (figures 1-11) teaches a card device with an antenna feed terminal, comprising: a card case comprising an upper cover 6 and a lower cover 7, a circuit board disposed in the inner space of the card case, and an antenna 1 rotatably disposed on the outside of the card case and electrically connected to a circuit formed on the circuit board 13, wherein a through-hole is formed in a side wall of the card case for inserting an antenna rotating shaft 2 formed of a conductive material on the base end of the antenna from the outside into the inside of the card case in a direction along the surface of the circuit board, a part for supporting the antenna rotating shaft is formed on the inner wall surface of the card case such that an inner portion of the antenna rotating shaft, which is inserted through the through-hole into the inside of the card case, is supported within the card case in such a manner that the inner portion of the antenna rotating shaft is apart from the circuit board and is freely rotatable, a feed terminal 9 having elasticity is disposed between the inner portion of the antenna rotating shaft, which is located inside the card case, and an area of the circuit board, which faces the inner

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portion of the antenna rotating shaft, such that the elasticity of the feed terminal provides an urging force against the inner portion of the antenna rotating shaft, the feed terminal is fixed to an antenna connection part of the circuit formed in the area of the circuit board, which faces the antenna rotating shaft, such that the feed terminal is electrically connected to the circuit of the circuit board, and the feed terminal is urged by the urging force so as to be maintained in contact with the antenna rotating shaft. It is noted that Kota does not explicitly disclose that a feed terminal 9 having elasticity. Takashi teaches such feed terminal having the elasticity part is well known in the art see Takashi (paragraphs [0027-0033]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Kota's system the elastic part, as taught by Takashi such that the elasticity of the feed terminal urges the feed terminal contact with the antenna rotating shaft thereby electrically connecting the feed terminal to the circuit board.

As to claim 2, and similar claim 8, wherein the feed terminal is disposed between the side wall of the card case, in which the through-hole for inserting the antenna rotating shaft is formed, and the part for supporting the antenna rotating shaft such that the feed terminal is urged into contact with the inner portion of the antenna rotating shaft see Kota (figure 1).

As to claim 4, and similar claim 10, wherein the part for supporting the antenna rotation shaft is formed on the inner surface of the upper cover whereby the antenna rotating shaft is rotatably supported to the upper cover, the circuit board is fixed to the lower cover, and the feed terminal of the circuit board fixed to the lower cover is urged into contact with the antenna rotating shaft supported to the upper cover by combining the lower cover and the upper cover see Kota (figure 1).

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3. Claims 3, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki Kota (JP2001-339211) in view of Shinichi (JP2000-252719).

As to claim 3, and similar claim 7, an antenna rotation position holding arrangement for holding the antenna rotation adjustment position by friction which Kota does not explicitly disclose. Shinichi teaches that antenna rotation position holding arrangement for holding the antenna rotation adjustment position by friction is well known in the art see Shinichi (paragraphs [0002-0005]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the antenna rotation position holding arrangement for holding the antenna rotation adjustment position by friction, as taught by Shinichi because both of their teaching is directed to the antenna system.

4. Claims 5, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki Kota (JP 2001-339211) in view of Keizo (JP10-224046).

As to claim 5, and a similar claim 9, wherein one of the upper cover and the lower cover has an extending wall formed so as to extend along the outer surface of the side wall of the other cover, a hook is formed on the end of the extending wall, a hook receiving part for receiving the hook to achieve a firm connection between the hook and the hook receiving part is formed on the other cover, and the upper cover and the lower cover are assembled by firmly engaging the hook of the one cover with the hook receiving part of the other cover which Kota does not explicitly disclose. Keizo teaches that the upper cover and the lower cover has an extending wall formed so as to extend along the outer surface of the side wall of the other cover, a hook is formed on the end of the extending wall, a hook receiving part for receiving the hook to achieve a firm

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connection between the hook and the hook receiving part is formed on the other cover, and the upper cover and the lower cover are assembled by firmly engaging the hook of the one cover with the hook receiving part of the other cover see Keizo (figures 1-6). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine Keizo's teaching with Kota because that technique of fitting an upper case with lower case to obtain a combined structure of Keizo can be used to assemble the card device of Kota.

Inquiries

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huedung Mancuso whose telephone number is (571) 272-1939.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens, can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Huedung Cao Mancuso/
Primary Examiner, Art Unit 2821